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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/735,995	12/15/2003	Gerald Marron	132258 CMI-0001-100	2971	
34132 . 75	590 11/16/2004		EXAM	EXAMINER	
COZEN O'CONNOR, P.C. 1900 MARKET STREET			JULES, FRANTZ F		
	IA, PA 19103-3508		ART UNIT	PAPER NUMBER	
			3617	•	
			DATE MAILED: 11/16/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/735,995	MARRON, GERALD					
Office Action Summary	Examiner	Art Unit	1				
•	Frantz F. Jules	3617					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>15 S</u>	eptember 2004.						
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-12 and 14-18</u> is/are pending in the	application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>10-12,14 and 18</u> is/are allowed.							
6)⊠ Claim(s) <u>1-9 and 15-17</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	TO-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PT	O-152)				
Paper No(s)/Mail Date	6) Other:	,,	,				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	ction Summary Pa	art of Paper No./Mail [Date 11102004				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Staples (US 258,259).

Claims 1-2, 5-6

Staples discloses a railroad frog apparatus for connecting intersecting rail lines comprising a body having flangeway that intersect as shown on the top surface; and at least one connection plug (a^5, a^6) extending from the body for connecting to a running rail; the at least one connection plug having a cross-sectional profile that is substantially identical to a cross-sectional profile of the running rail.

The railroad frog apparatus further comprising first, second, third, and fourth connection plugs (a^1 - a^4) extending from the body, each connection plug having a cross sectional profile that is substantially identical to a cross sectional profile of the running rail to which that connection plug will connect in accordance with claim 2.

The railroad apparatus being constructed of a single piece steel in accordance with claims 5-6.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over The Prior Art Drawing (Fig. 1) in view of Testart (US 5,042,755).

Claim 3

Staples teaches all the limitations of claim 3 except for a railroad frog apparatus comprising connecting plug having cross-section profile that is substantially identical to a cross-section profile of the connecting rail. The general concept of providing connecting plug having cross-section profile that is substantially identical to a cross-section profile of the connecting rail is well known in the art as illustrated by Testart which disclose the teaching of welding a connecting plug (3A, 3B) of a railroad frog to a rail where the connecting plugs have the same cross-sectional profile to the rails, see col 5, liens 5-10, 23-27. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify The prior art Drawings (Fig. 1) to include the use of connecting plug having cross-section profile that is substantially identical to a cross-section profile of the connecting rail in his advantageous railroad frog apparatus as taught by Testart in order to eliminate the existence of a joint thereby facilitating welding and increasing strength in the rail and frog assembly.

5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Staples (US 258, 259) in view of Testart (US 5,042,755).

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Claim 15

Staples teaches all the limitations of claim 15 except for a railroad frog apparatus comprising welding of the connecting plug to the rail. The general concept of welding a connecting plug of a railroad frog to a rail is well known in the art as illustrated by Testart which disclose the teaching of welding a connecting plug (3A, 3B) of a railroad frog to a rail, see col 5, liens 5-10, 23-27. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Staples to include the use of connecting the railroad frog to the rail by a weld as taught by Testart in order to eliminate the existence of a joint thereby increasing strength in the rail and frog assembly.

6. Claims 4, 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staples (US 258, 259) in view of Testart (US 5,042,755) and Connelly (EP 0 602 728 A1).

Claims 4, 16-17

Staples teaches all the limitations of claims 4, 16-17 except for a railroad frog apparatus comprising welding of the connecting plug to the rail by a thermite weld. The general concept of welding a connecting plug of a railroad frog to a rail is well known in the art as illustrated by Testart which disclose the teaching of welding a connecting plug (3A, 3B) of a railroad frog to a rail, see col 5, liens 5-10, 23-27. Also, the general concept of providing a thermite weld for connecting rails to a frog assembly is well known in the art as illustrated by Connelly which discloses the teaching of a thermite weld for joining rails and frogs, see page 2, lines 1-2. It would have been obvious to one of ordinary skill in

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the art at the time of the invention to modify Staples to include the use of connecting the railroad frog to the rail by a weld as taught by Testart in order to eliminate the existence of a joint thereby increasing strength in the rail and frog assembly. Moreover, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Staples to include the use of connecting the rail to the frog by a thermite weld as taught by Connelly in order to achieve increased fatigue resistance in the rail and frog assembly.

7. Claims 7 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staples (US 258, 259) as applied to claims 1 and 15 above.

Claims 7 and 17

Regarding using the method of machining for forming the apparatus as recited in claims 7 and 17, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Staples to include the use method of machining for forming the apparatus in his advantageous system, as method of machining of a part is a common and everyday occurrence throughout the railroad frog apparatus design art and the specific use of machining of the railroad frog would have been an obvious matter of design preference depending upon such factors as the loading imposed on the railroad frog, the yield strength of the railroad frog material, the stress concentration factor allowable in the railroad frog; the ordinarily skilled artisan choosing the best stress profile corresponding to a particular loading imposed on the side walls which would most optimize the cost and performance of the device for a particular application at hand, based upon the above noted common design criteria.

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8. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Staples in view of Wharton (US 211,607).

Claims 8-9

Staples teaches all the limitations of claims 8-9 except for a flangeway having a convex portion on a floor defined by a first arc extending between first and second points that are at flangeway depths so as to avoid contact with a flange of a train wheel passing through the flangeway. The general concept of providing "a floor having a convex portion defined by a first arc extending between first and second points that are at flangeway depths so as to avoid contact with a flange of a train wheel passing through the flangeway depth" is well known in the art as illustrated by Wharton Jr which discloses in figs. 3-4 the use of "a floor having a convex portion (1) defined by a first arc extending between first and second points (1, 2) that are at flangeway depths so as to avoid contact with a flange of a train wheel passing through the flangeway". It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Staples to incorporate the use of "a floor having a convex portion defined by a first arc extending between first and second points that are at flangeway depths so as to avoid contact with a flange of a train wheel passing through the flangeway" in his advantageous railroad frog apparatus as taught by Wharton in order to reduce stress on the wheel of the railroad car.

Allowable Subject Matter

9. Claims 10, 14 and 18 stand allowable.

Response to Arguments

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10. Applicant's arguments filed 09/15/2004 have been fully considered but they are

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moot in view of the new grounds of rejection.

Applicant's argument regarding the failure of the prior art reference Reed to disclose "a

connection plug that extends from the body of the railroad frog and having a cross-

sectional profile that is substantially identical to a cross-sectional profile" causes the

withdrawal of the rejection made in the previous office action. The general concept of

providing a railroad frog having connecting plugs with cross-sectional profile that are

identical to the cross-sectional profile of the rail is well known in the art as illustrated by

the Testart reference. This establishes a prima facie case of obviousness to an

ordinary skill in the art.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure:

Reid, Dupont, Shoemaker, Samuel et al are cited to show related railroad frog

apparatus made of a single piece including connecting plugs.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Frantz F. Jules whose telephone number is (703) 308-

8780. The examiner can normally be reached on Monday-Thursday and every other

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph S. Morano can be reached on (703) 308-0230. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frantz F. Jules Primary Examiner Art Unit 3617

FFJ

June 15, 2004

FRANTZ F. JULES
PRIMARY EXAMINED